



**SC-65**

Hydraulic  
Crawler Crane

LIFTING  
DWG  
DRAGLINE  
CASING  
OSCILLATOR  
CLAMHELL  
ROTARY  
VIBRO

Hydraulic Crawler Crane

**SC-65**

**CAT** Integrated  
Technologies

**soilmec**  
Drilling and Foundation Equipment



### High engine power

The Caterpillar C15 is a proven high volume engine providing exceptional performance and reliability. ACERT™ technology, is applied to meet emission regulations while still providing excellent fuel efficiency, all through advanced electronic control, precision fuel delivery, and refined air management.

### New ergonomic cabin

New Cab designed to be spacious, quite and comfortable for the operator, assuring high productivity throughout the working day. Operator controls are conveniently located for easy access. For more details see page 17.

### Control system

The DMS (Drilling Mate System) controls and monitors the operation of the machine (see page 18). With the new electric-hydraulic proportional control, the machine can perform more functions at the same time. A dedicated power module electronic control system ensures that the main hydraulic pumps and diesel engine work at maximum efficiency and productivity.

### Winches with high line pull

Free fall winches with high performances even in the most demanding conditions. Nominal line pull at 1st layer = 240 kN; max rope speed = 87 m/min.

### Passive protection (handrails and guards)

Handrails on rooftop protect against possible falls of maintenance people staff (FOPS compliant). Overhead and windshield guards (removable in case of emergency) protect from material falling from falling objects. The exterior design uses thick steel tubing along the bottom perimeter of the cabin, improving the resistance to fatigue and vibration

### Quick assembly and efficient transport

Counterweight with a self-handling system (service crane not required). Crawlers can be retracted to respect 3 meters wide in transport. Transport weight less than 50 ton. Removable tracks available to reduce transport weight under 35 tonnes.

### The Soilmec advantage

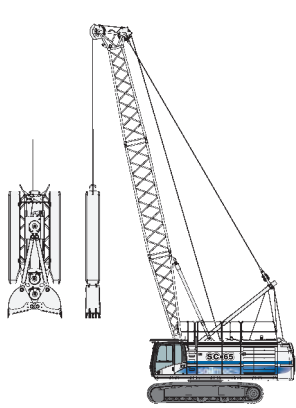
- A real multifunctional machine, designed from scratch to give you the best drilling solution.
- Long life expectancy with a high residual value.
- Best price/performance ratio.
- Built with the customer in mind.



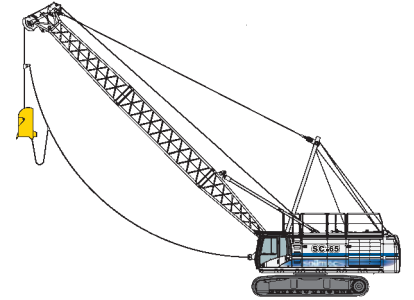
- 1** Undercarriage
- 2** Turret
- 3** Winch
- 4** Boom hoist
- 5** Lattice boom
- 6** Cathead
- 7** Jib
- 8** Hook
- 9** Swivel
- 10** Self erecting counterweight
- 11** Cab

Caterpillar C15 Engine		
Power @ 1800 rpm	<b>403 kW</b>	<b>540 HP</b>
Operating weight (approx)	<b>67500 kg</b>	<b>148810 lb</b>
Max lifting capacity	<b>65.7 ton @ 3,5 m</b>	<b>144842 lb @ 11.5 ft</b>
Max boom length	<b>51 m</b>	<b>167 ft</b>
Max line pull	<b>240 kN</b>	<b>53954 lb<sub>f</sub></b>

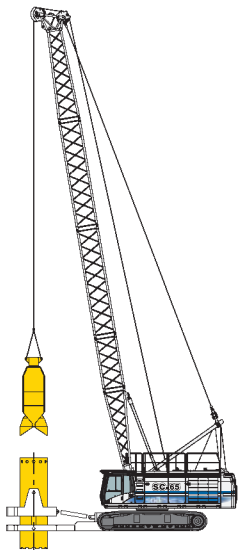
# WORKING CONFIGURATIONS



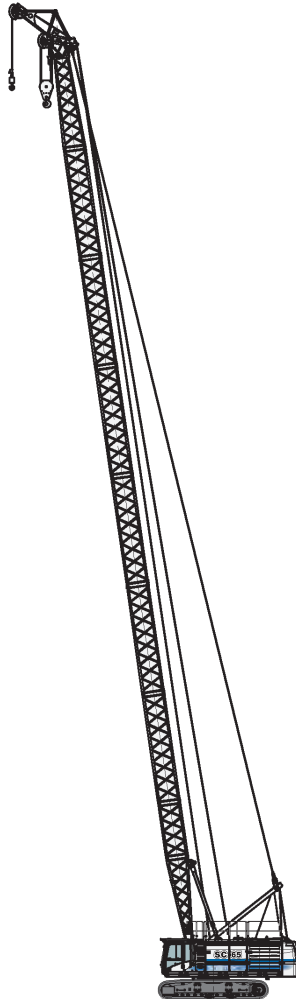
**SC-65 for diaphragm walls**  
with DW grab



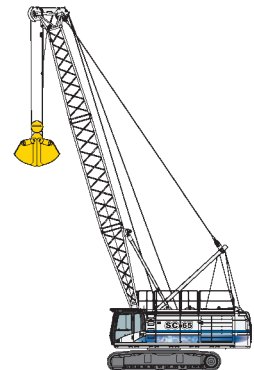
**SC-65 for material excavation**  
with dragline



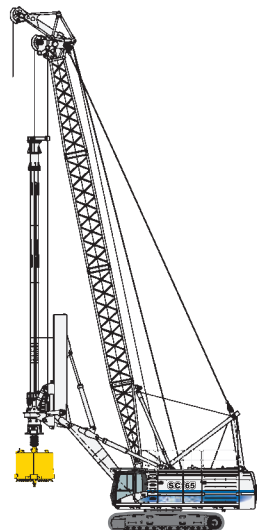
**SC-65 for bored piles**  
with casing oscillator  
and hammer grab



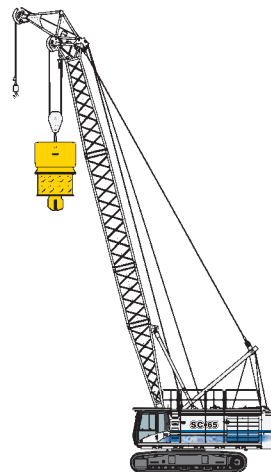
**SC-65 for lifting**  
with crane equipment



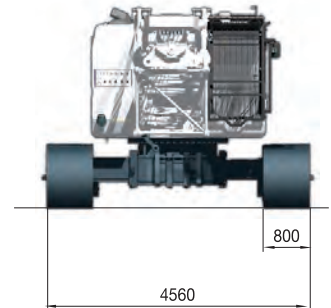
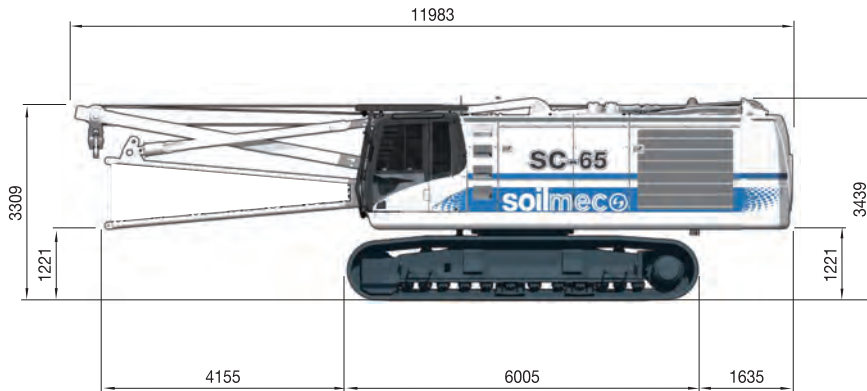
**SC-65 for material handling**  
with clamshell




**SC-65 for bored piles**  
with hydraulic or mechanical rotary



**SC-65 for driving profiles**  
with vibratory drivers



## DIESEL ENGINE

	Model	<b>CATERPILLAR C15 with ACERT™ Technology</b>	
	Max Rated Power	<b>403 kW @ 1800 rpm</b>	<i>540 HP @ 1800 rpm</i>
	Displacement	<b>15,2 liters</b>	<i>4.02 US gal</i>
	Number of cylinders and Arrangement	<b>6 in line</b>	
	Aspiration	<b>Turbocharged, air to air aftercooled</b>	
	Cooling	<b>Water-cooled</b>	
	Electric system	<b>24 V</b>	
	Emissions	<b>C15 meets EU 97/68/EC Stage IIIA and EPA/CARB Tier 3 directives</b>	

## HYDRAULIC SYSTEM

	Max working pressure	<b>30 MPa</b>	<i>4351 psi</i>
	Max oil flow	<b>Main pumps: 2 x 400 l/min (Tandem 250 cc Pump)</b>	<i>2 x 105.7 US gal/min</i>
	Cooling	<b>Oil-to-air heat exchanger</b>	

Main pumps Caterpillar CXP Heavy Duty Pump - 250 cc with ESP Control:

- Variable displacement axial piston pumps for open circuits
- Flow is proportional to drive speed and is infinitely variable (oil supplied only when necessary)
- Output flow increases with swash plate angle from 0° to its maximum value

Pumps are driven by electro-hydraulic control 24V via Caterpillar ECM.

All function can be driven simultaneously.


Service pumps dedicated for swing, counterweight lifting, lower drive, fans, etc.

Additional hydraulic kits are available for: winch synchronisation, casing oscillator, hydraulic rotary, both positive and negative brake system. The use of synthetic environmentally friendly oil is possible.

### Power module control system

The system provides all required hardware (Electronic control module, sensor hardware etc) and software to ensure that hydraulic pumps and Caterpillar Diesel engine work at their most efficient and productive levels. The custom control system software offers many features including: engine underspeed control, hydraulic power limiting, fully variable pump power distribution control, and comprehensive hydraulic system monitoring and broadcast.

## MACHINE CONTROL SYSTEM

 The Soilmec proprietary **Control System** installed on SC-65 is electric-hydraulic proportional allowing control and coordination of machine functions; movements can be performed simultaneously.

This redundant PLC system guarantees, in case of failure, no impact on machine availability (operator will be informed, through the touch panel display, about the specific problem).

The Switch Can Open allows a quick trouble shooting in electric connections.

The software can be customized with functions dedicated to specific attachment (e.g.: winch synchronism for cable grab).

The associated **Monitoring System** provides following main features

- warning recording, failure detection, maintenance management;
- interface with power module control system;
- job site data processing and production data report;
- remote control and real time assistance on the machine.

# TECHNICAL SPECIFICATIONS

## Interfaces with operator:

Two pedals for crawler control and two pedals for free fall winch control.

High definition LCD monitor.

Keyboards with different buttons.

Two multi-directional joysticks configurable according different working functions: hydraulic cable excavator configuration (left joystick for boom winch and swing; right doubleT-joystick for front and rear winch); crane configuration (left joystick for boom winch and rear winch; right joystick for swing and front winch); for rotary configuration other 2 joysticks are installed in the cab.

## MAIN WINCHES

Winch type	SF140		SF240		SW260	
	Lebus		Lebus		Lebus	
Drum grooved type	Lebus		Lebus		Lebus	
Line pull (nominal load)	<b>140 kN</b>	31474 lb <sub>f</sub>	<b>240 kN</b>	53955 lb <sub>f</sub>	<b>260 kN</b>	58451 lb <sub>f</sub>
Rope diameter	<b>26 mm</b>	1.02 in	<b>30 mm</b>	1.18 in	<b>30 mm</b>	1.18 in
Rope speed	<b>106 m/min</b>	348 ft/min	<b>87 m/min</b>	286 ft/min	<b>85 m/min</b>	279 ft/min
Rope capacity 1st layer	<b>38 m</b>	125 ft	<b>44 m</b>	145 ft	<b>40 m</b>	132 ft

Options: Auxiliary winch (line pull: 70 kN); Tagline winch (line pull: 30 kN).

Main features: compact design, rigid winch construction, high efficiency, long work life cycle.

Every winch is controlled independently by a variable flow hydraulic motor, with pressure controlled, to guarantee best regulation of line speed and line pull. Measuring pump and free fall valve allow to automatically adjust oil flow providing maximum line speed depending on load.

The input and output drives are protected against oil leakage and ingress of dirt or water by radial shaft sealing rings.

## BOOM HOIST

Winch line pull	<b>2x57 kN</b>	2x12815 lb <sub>f</sub>
Winch rope diameter	<b>16 mm</b>	0.63 in

Boom winch: twin drum driven by hydraulic motor and planetary gearbox. Brake with hydraulically operated multiple-disc system

## SWING

Swing bearing	<b>Double-row ball type with external teeth</b>
Swing drives	<b>Type: planetary 2 stages</b>
	<b>Hydraulic motor: fixed displacement piston</b>
	<b>Swing brake type: multiple disc</b>
Swing speed	<b>from 0-4.5 rpm (continuously variable, selector for 3 speed ranges to increase swing precision).</b>

Swing unit is powered by 2 hydraulic piston motors (swing drives) through planetary gearbox and pinion.

## UNDERCARRIAGE

Track shoes type	<b>Triple grouser or flat</b>	
Travel speed	<b>1,2 - 1,8 km/h</b>	0.74 - 1.12 mph
Max. gradeability (empty)	<b>0,683</b>	
Track shoe width	<b>800 mm</b>	31.5 in

Variable gauge lower (from 3000 to 4560 mm) with hydraulically actuated track frames which gives the flexibility to change the gauge from the cab for maximum stability or to reduce machine width for transport. The lower design accommodates most track shoe widths.

Removable sides available as option.

Drive system: higher travel speed provided by two-speed axial piston hydraulic motors, with planetary reduction gearbox and motion control valve integrated on motors.

Parking brake: multi-disc brake, spring loaded.

## SERVICE REFILL CAPACITIES

Fuel Tank	<b>850 l</b>	225 US gal
Cooling System	<b>100 l</b>	27 US gal
Diesel engine oil	<b>65 l</b>	17 US gal
Hydraulic Tank	<b>990 l</b>	262 US gal

## NOISE EMISSION

Noise emissions correspond with 2000/14/EC directive on noise emission by equipment used outdoors.



Soilmec integrates high quality level components: Caterpillar, Rothe erde, Trasmital, Zollern, Rexroth, Berco.

## STANDARD EQUIPMENT

### Base machine

- High capacity batteries for low temperature
- Alternator (95 A)
- PLC system for electric-hydraulic controls
- 800 shoe crawlers
- Steps for crawlers
- Tracks with chain tensioning device
- Grease lubricated tracks
- Automatic swing parking brake
- Automatic travel parking brake
- Two front working lights
- Rear view mirror
- Counterweight self-removal
- Swivel for main rope
- Hydro-clean micro filtration with water separation
- Electric refuelling pumps for diesel and hydraulic oil with automatic stop system

### Cab/ Control

- Air conditioner, heater and defroster with automatic climate control
- Beverage/Cup holder
- Radio and CD player
- High brightness led internal to the cab
- Courtesy lights in the cab
- Signal/warning horn
- Floor mat
- Lockable glove compartment
- Retracted seat belt
- Stationary skylight
- Sunshade for windshield
- Travel control pedals with removable hand levers
- Parallelogram wiper including a washer nozzle mounted below the cab windshield
- Warning in cab of hydraulic oil contamination
- Tempered safety glass panel
- Armrests

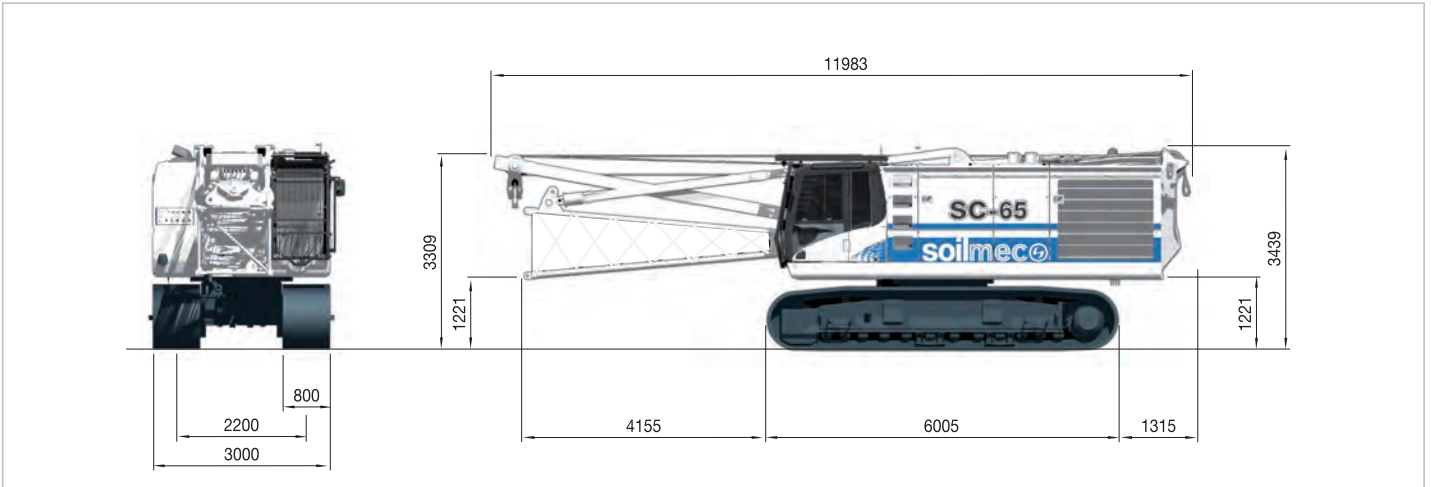
### Safety device

- LCD camera monitor multi-display
- Fire extinguisher
- Cab top guard (for compliance)
- Catwalk (on side and in front of operator's cab)
- Depthmeter on both main winches
- State-of-the-art safety load indicator with graphic display
- Load limit switch
- Hoist limit switch on both main winches
- Rope limit switch

## ADDITIONAL EQUIPMENT OPTIONS

- Track triple grouser: 700 mm, 900 mm
- Flat track shoes
- Removable tracks
- Windshield guards
- Reversible cooling fan including protective screen
- Bio lubrication engine oil
- "CAT BIO HYD ADVANCED" hydraulic bio-oil (compliant with European directive 2005/360/EC).
- GSM modem
- Hydraulic arrangement for Casing oscillator attachment
- Positive or negative free fall controls
- Satellite system for remote transmission of operating data
- Electric hand throttle
- Auxiliary winch
- Tagline winch
- Automatic lubrication system
- Winch synchronisation
- Potentiometer to tune the load between main winches during 2-rope grab operation
- Three color percentage indicator
- Swing and travel alarms
- Lights for overall dimensions
- Double T-joystick for cable excavator configurations

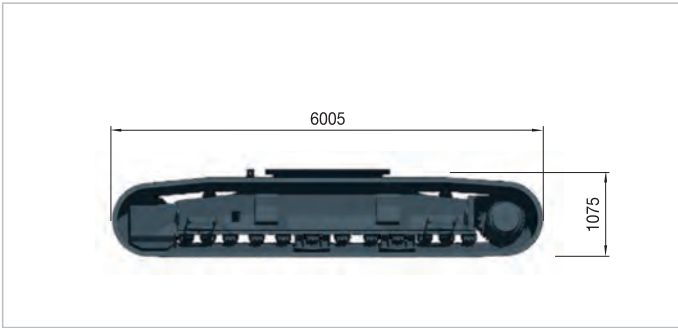
# TRANSPORT DIMENSIONS AND WEIGHTS



## Base machine

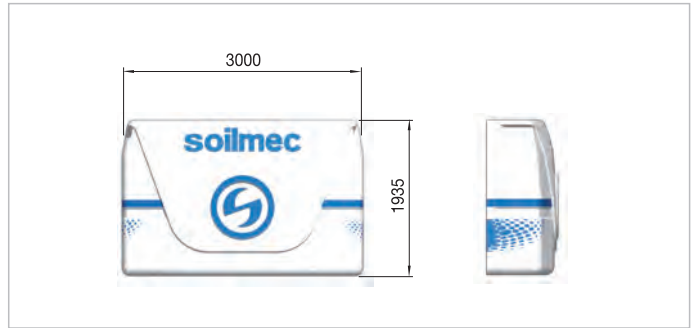
with boom foot, wire ropes, without basic counterweight

Width **3000 mm** 118.2 in  
Weight **49000 kg** 108025 lb



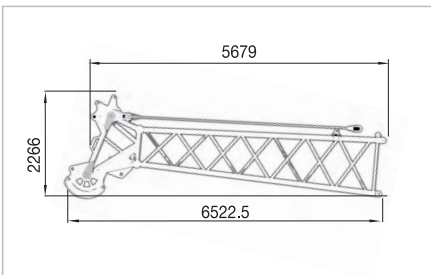
## Side frame

Width **6005 mm** 236.6 in  
Weight **8750 kg** 19290 lb



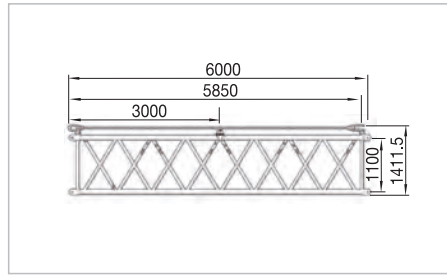
## Counterweight

Width **3000 mm** 118.2 in  
Weight **17650 kg** 38911 lb



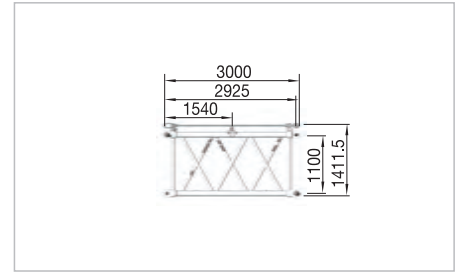
## Boom head

Width **2260 mm** 89 in  
Weight **1600 kg** 3527 lb



## Boom insert (6m)

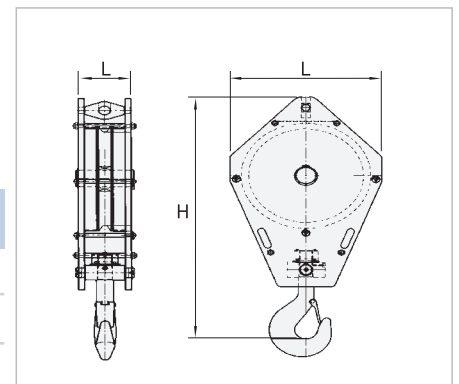
Width **1410 mm** 55.6 in  
Weight **750 kg** 1653 lb



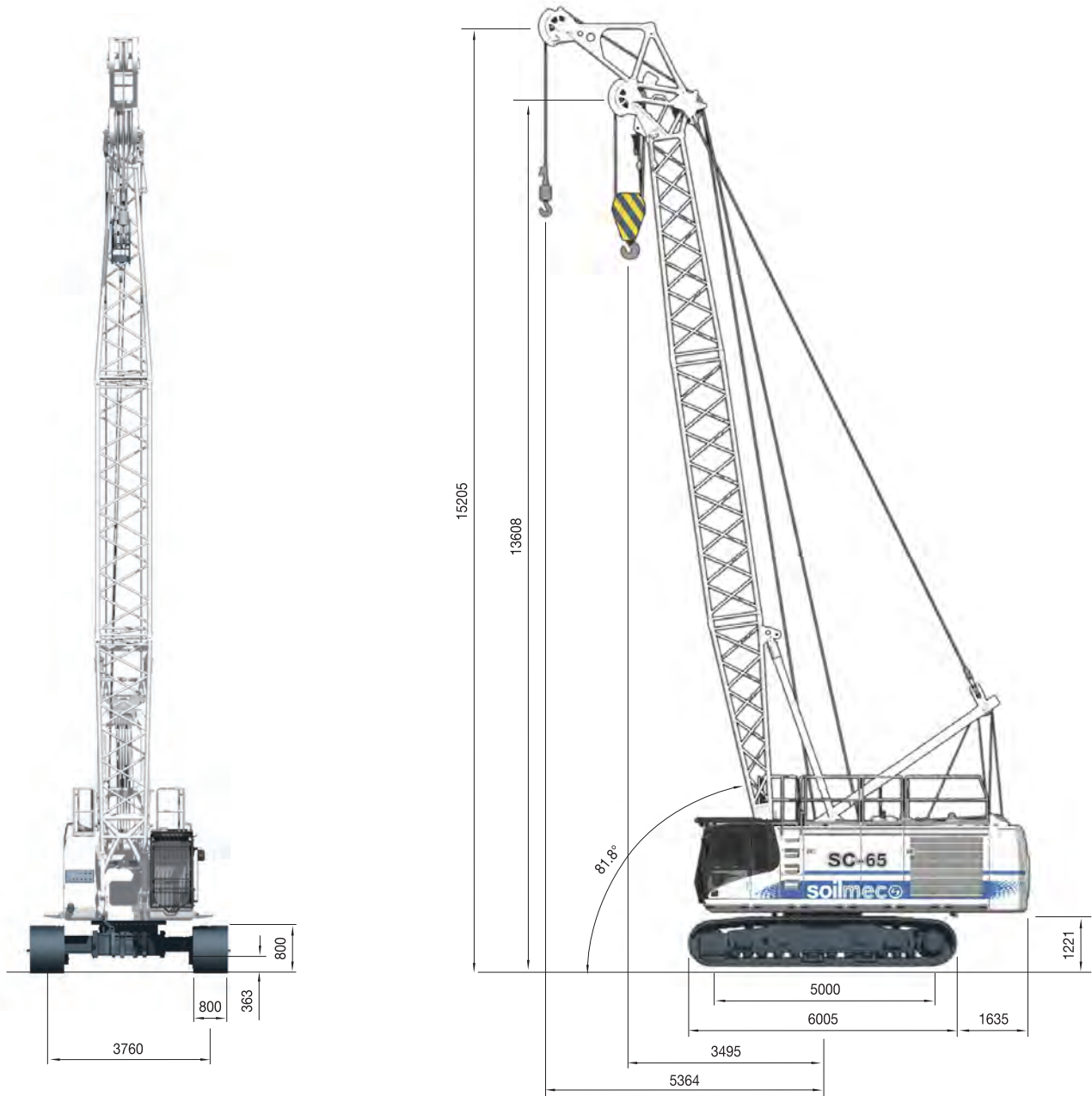
## Boom insert (3m)

Width **1410 mm** 55.6 in  
Weight **500 kg** 1102 lb

Hook	Weight	Dimensions (LxWxH)
66 ton 73 US ton	780 kg 1720 lb	830x302x1753 mm 32.7x11.9x69.1 in
45 ton 50 US ton	670 kg 1477 lb	830x263x1668 mm 32.7x10.4x65.7 in
27 ton 30 US ton	550 kg 1213 lb	830x263x1643 mm 32.7x10.4x64.7 in



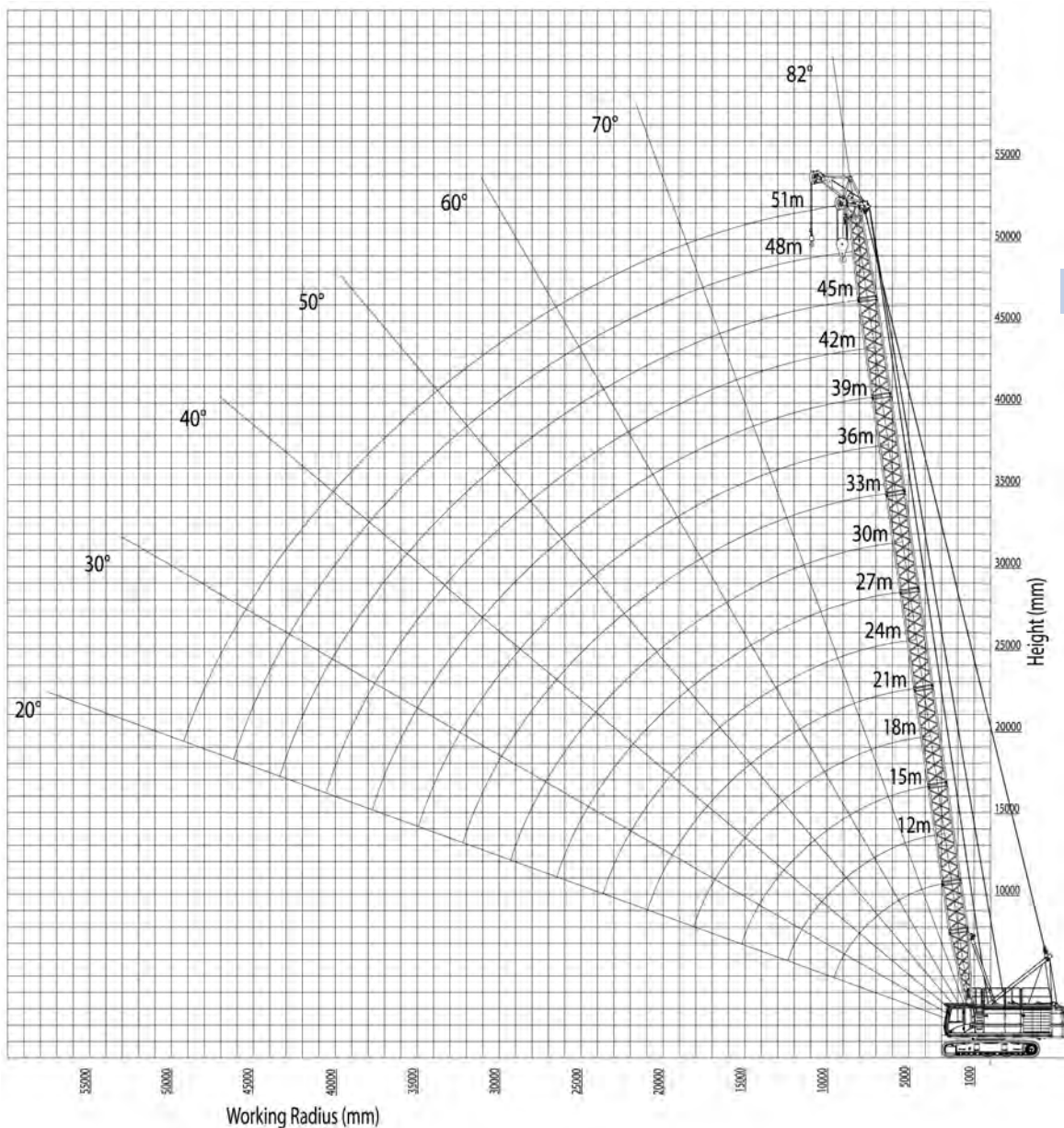




## Hooks

Type	N° of shaves	Max rated load					
		1 line part	2 line parts	3 line parts	4 line parts	5 line parts	6 line parts
t US ton			t US ton		t US ton		t US ton
66 73	3	-	27 30	-	45 50	-	66 73
45 50	2	-	27 30	-	45 50	-	-
27 30	1	-	27 30	-	-	-	-

# MAIN BOOM



## AUXILIARY JIB

Max capacity  
20 t (44092 lb)

Load chart programmed  
in Load moment indicator

## Notes

- Rated loads are in metric tons valid for 360 degrees working area.
- Lifting capacities are in compliance with DIN 15019/part 2/chart 1 and ISO 4305 and do not exceed 75% of tipping load
- Working radius are measured from the swing center of the machine.
- Rated loads are calculated with the machine on firm and level ground, without travelling
- Weights of lifting attachments (e.g.: hook, ropes, bucket, etc.) are included in the rated load: therefore their weights must be subtracted from rated load to obtain net lifting value.
- This load chart is valid if crawler frames are extended.
- Lifting capacities are based on freely suspended loads. Operator must reduce lifted loads and operating speeds in case of adverse conditions (e.g.: wind, soft ground, out-of-level, pendulum action, sudden load stopping, operating speeds, etc.)
- This load chart are only for reference. For actual lifting capacities please refer to load chart in operator's manual.
- Instruction in the "Operator's Manual" must be strictly observed during machine operations.
- Operations are not approved for working radius and boom lengths that have no ratings associated on load chart

# LOAD CHART

## Capacity (t)

### Boom Length (m)

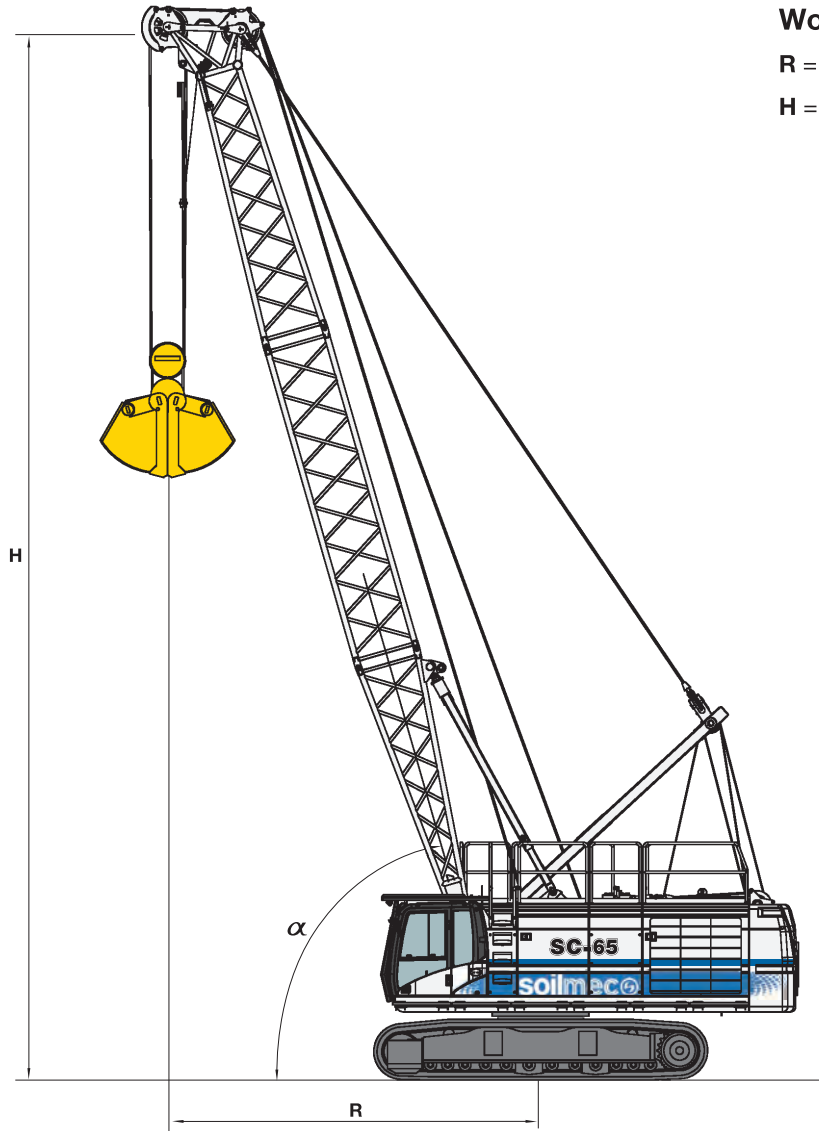
Radius (m)	12m	15m	18m	21m	24m	27m	30m	33m	36m	39m	42m	45m	48m	51m	Radius (m)
3,5	65,7														3,5
4,0	63,5	60,1													4,0
4,5	57,1	55,0	49,9												4,5
5,0	49,2	48,0	46,9	46,2											5,0
5,5	42,2	41,2	40,9	39,4	38,3										5,5
6,0	36,9	36,8	36,8	34,6	34,0	34,0									6,0
6,5	32,7	32,7	32,7	31,2	30,6	30,7	30,8	24,8							6,5
7,0	29,4	29,3	29,3	28,9	28,1	27,6	26,5	24,3	24,0						7,0
7,5	26,7	26,6	26,5	26,0	25,4	25,0	23,5	23,4	23,0	22,8					7,5
8,0	24,4	24,3	24,2	23,9	23,5	22,9	21,9	21,6	21,4	21,0	19,2				8,0
8,5	22,4	22,3	22,3	22,1	21,7	21,2	20,8	20,7	20,6	19,1	18,2				8,5
9,0	20,8	20,6	20,6	20,5	20,1	19,9	19,2	19,2	19,2	18,2	17,1	16,9	16,3		9,0
9,5	19,3	19,2	19,1	19,0	18,6	18,5	18,0	17,8	17,8	17,1	16,7	16,4	16,2	15,9	9,5
10,0	18,0	17,9	17,9	17,7	17,3	17,2	16,8	16,6	16,5	16,4	15,9	15,6	15,2	15,0	10,0
11,0	15,9	15,8	15,7	15,6	15,2	15,1	14,7	13,9	13,9	13,6	13,5	13,3	13,2	13,0	11,0
12,0	14,1	14,1	14,0	13,9	13,5	13,4	13,1	12,7	12,7	12,4	12,2	12,2	12,1	12,0	12,0
14,0		11,5	11,4	11,3	11,0	10,9	10,6	10,1	10,0	9,8	9,8	9,5	9,4	9,0	14,0
16,0			9,5	9,4	9,1	9,0	8,8	8,7	7,8	6,7	6,6	6,4	6,1	5,6	16,0
18,0				8,0	7,8	7,6	7,4	7,3	6,9	6,1	5,3	5,0	5,0	4,3	18,0
20,0				6,9	6,7	6,6	6,4	6,3	6,1	5,6	4,8	4,4	4,4	3,8	20,0
22,0					5,8	5,7	5,5	5,4	5,3	5,2	4,5	4,0	3,6	3,2	22,0
24,0						5,0	4,8	4,7	4,6	4,4	4,2	3,8	3,4	3,0	24,0
26,0						4,4	4,2	4,1	4,0	3,9	3,7	3,5	3,1	2,8	26,0
28,0							3,8	3,6	3,5	3,3	3,1	3,0	2,9	2,6	28,0
30,0								3,1	3,1	2,9	2,7	2,6	2,4	2,2	30,0
32,0										2,5	2,2	2,1	2,0	1,8	32,0
34,0											1,9	1,8	1,7	1,5	34,0
36,0											1,6	1,5	1,4	1,2	36,0
38,0											1,3	1,2	1,1		38,0
40,0															40,0
42,0															42,0
44,0															44,0
Part line	6	6	6	4	4	4	4	2	2	2	2	2	2	2	Part line

## Boom configuration

Type	Lenght		N° of boom extensions (*)													
<b>Boom foot</b>	<b>6 m</b>	<i>19.7 ft</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>Boom insert</b>	<b>3 m</b>	<i>9.8 ft</i>	1	-	1	-	1	-	1	-	1	-	1	-	1	
<b>Boom insert</b>	<b>6 m</b>	<i>19.7 ft</i>	-	1	1	2	2	3	3	4	4	5	5	6	6	
<b>Boom head</b>	<b>6 m</b>	<i>19.7 ft</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	
<b>Boom lenght (m)</b>			15	18	21	24	27	30	33	36	39	42	45	48	51	
<i>Boom lenght (ft)</i>			<i>49.2</i>	<i>59.1</i>	<i>68.9</i>	<i>78.7</i>	<i>88.6</i>	<i>98.4</i>	<i>108.3</i>	<i>118.1</i>	<i>128</i>	<i>137.8</i>	<i>147.6</i>	<i>157.5</i>	<i>167.3</i>	

(\*) Max two boom inserts of 3m installed straight after boom foot.

# CLAMSHELL EQUIPMENT



## Working diagram

R = radius

H = Height of cathead sheave centre above ground level

### Capacities in metric ton

boom length (m)	12			15			18			21			24		
	R	H	Capacity	R	H	Capacity	R	H	Capacity	R	H	Capacity	R	H	Capacity
boom angle (°)	m	m	t	m	m	t	m	m	t	m	m	t	m	m	t
70	5,9	12,9	20,2	6,9	15,7	20,1	7,9	18,6	20,0	8,9	21,4	17,8	10,0	24,2	15,3
60	7,8	12,0	20,0	9,3	14,6	17,2	10,8	17,2	14,8	12,3	19,8	12,1	13,8	22,4	10,3
50	9,5	10,8	16,9	11,4	13,1	13,6	13,3	15,4	11,0	15,3	17,7	9,3	17,2	20,0	7,8
40	10,9	9,4	14,4	13,2	11,3	11,2	15,5	13,2	9,0	17,8	15,1	7,3	20,1	17,1	6,2
30	12,1	7,6	12,5	14,7	9,1	9,6	17,3	10,6	7,6	19,9	12,1	6,2	22,5	13,6	5,2

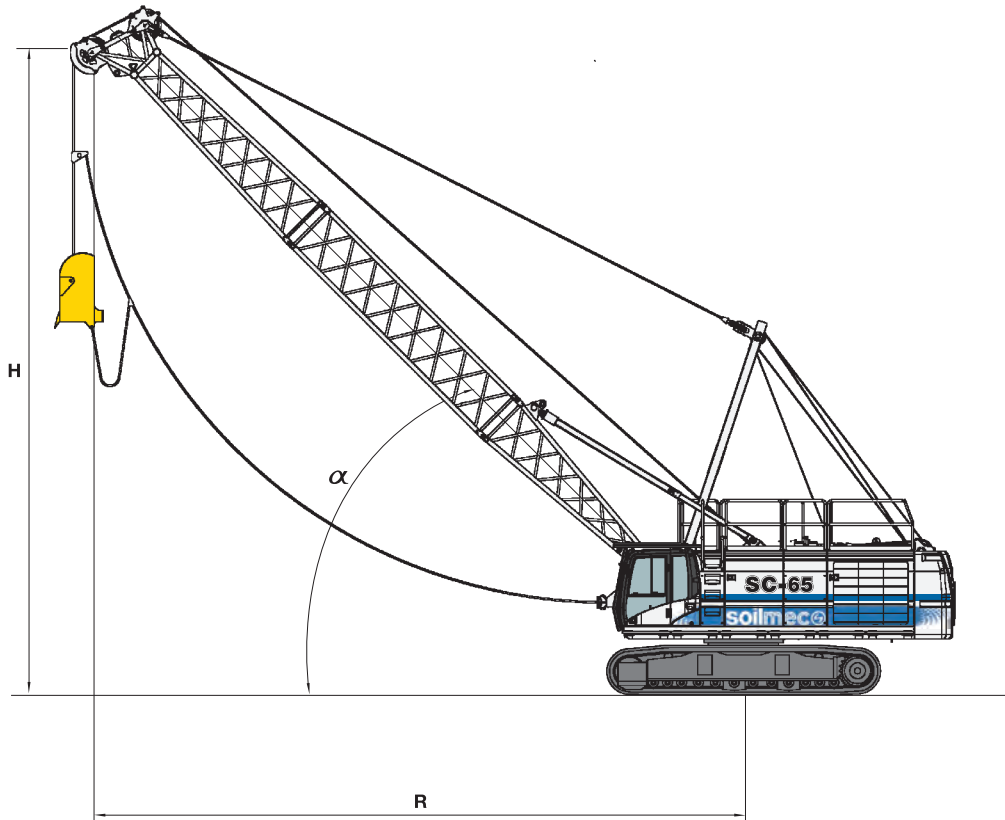
### Capacities in pound

boom length (ft)	39.4			49.2			59.1			68.9			78.7		
	R	H	Capacity	R	H	Capacity	R	H	Capacity	R	H	Capacity	R	H	Capacity
boom angle (°)	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft	ft	lb
70	19.2	42.4	44533	22.6	51.6	44312	26.0	60.9	44092	29.3	70.1	39242	32.7	79.4	33730
60	25.4	39.5	44092	30.4	48.0	37919	35.3	56.5	32628	40.2	65.1	26676	45.1	73.6	22751
50	31.1	35.6	37258	37.4	43.1	29983	43.7	50.6	24251	50.1	58.1	20503	56.4	65.7	17196
40	35.9	30.7	31746	43.5	37.0	24692	51.0	43.4	19841	58.5	49.7	16094	66.1	56.0	13669
30	39.8	25.1	27558	48.4	30.0	21164	56.9	34.9	16755	65.4	39.8	13669	73.9	44.8	11464

## Working diagram

R = radius

H = Height of cathead sheave centre above ground level



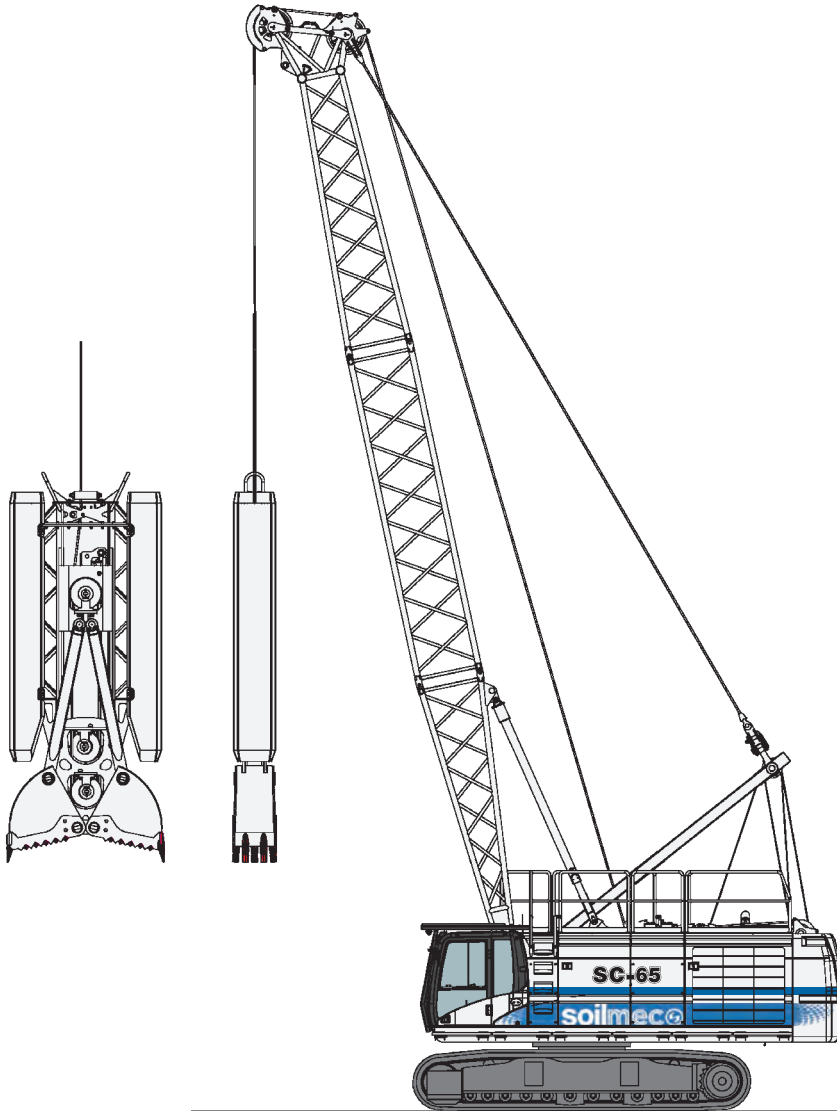
### Capacities in metric ton

boom length (m)	12			15			18			21			24		
	R	H	Capacity	R	H	Capacity	R	H	Capacity	R	H	Capacity	R	H	Capacity
boom angle (°)	m	m	t	m	m	t	m	m	t	m	m	t	m	m	t
45	10,1	9,7	15,0	12,2	11,8	12,0	14,3	13,9	10,0	16,4	16,1	8,7	18,5	18,2	7,6
40	10,8	8,9	14,0	13,1	10,9	11,1	15,4	12,8	8,9	17,7	14,7	7,6	20,0	16,6	6,6
35	11,4	8,1	12,9	13,9	9,8	10,0	16,3	11,5	8,1	18,8	13,3	6,9	21,2	15,0	5,9
30	12,0	7,2	11,7	14,6	8,7	8,9	17,2	10,2	7,4	19,8	11,7	6,3	22,4	13,2	5,3

### Capacities in pound

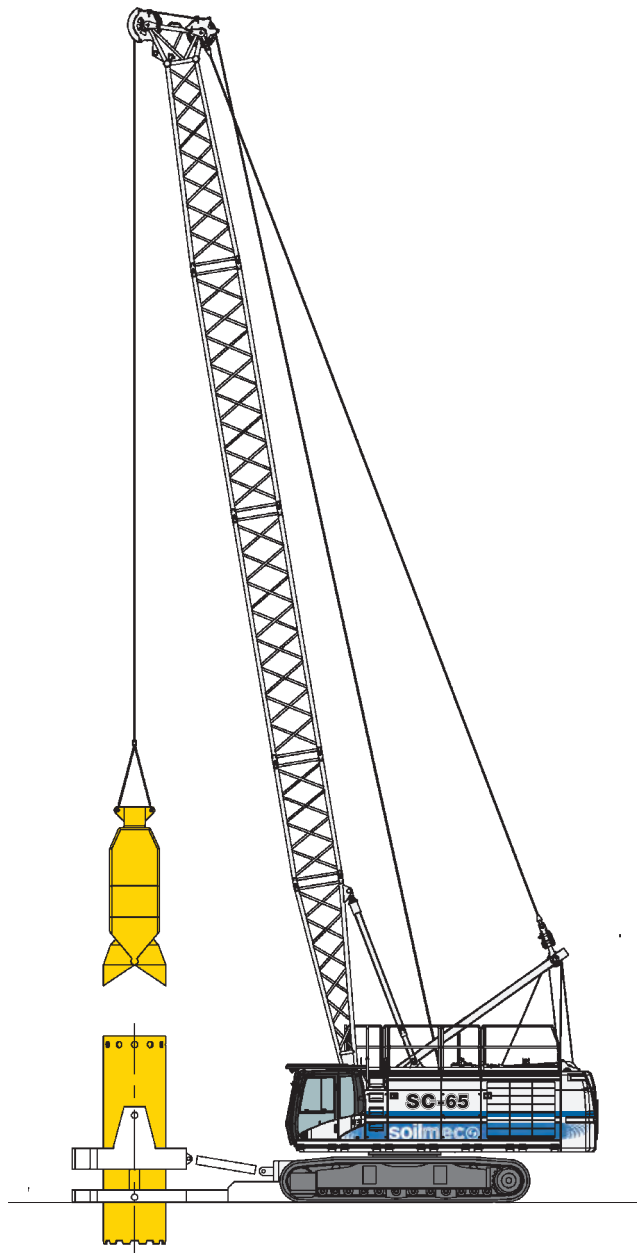
boom length (ft)	39.4			49.2			59.1			68.9			78.7		
	R	H	Capacity	R	H	Capacity	R	H	Capacity	R	H	Capacity	R	H	Capacity
boom angle (°)	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft	ft	lb	ft	ft	lb
45	33.0	31.8	33069	40.0	38.8	26455	46.9	45.7	22046	53.9	52.7	19180	60.9	59.7	16755
40	35.3	29.3	30864	42.9	35.6	24471	50.4	41.9	19621	57.9	48.3	16755	65.5	54.6	14550
35	37.4	26.6	28439	45.5	32.2	22046	53.5	37.9	17857	61.6	43.5	15212	69.7	49.1	13007
30	39.3	23.7	25794	47.8	28.6	19621	56.3	33.5	16314	64.8	38.4	13889	73.4	43.4	11684

# DIAPHRAGM WALL GRAB EQUIPMENT



## Diaphragm Wall Grab

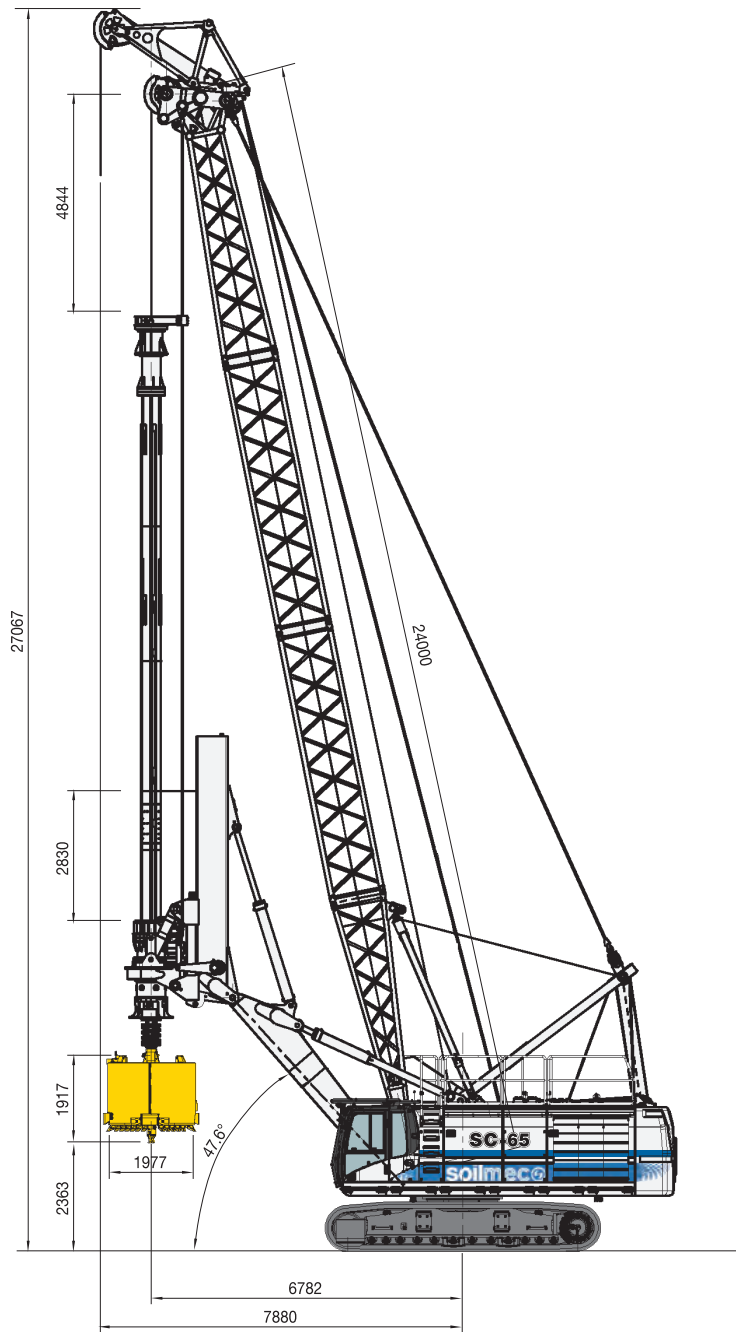
Winches	<b>2 x 240 kN</b>	<i>2x53.955 lb<sub>r</sub></i>
Max chisel weight	<b>13 t</b>	<i>28.660 lb</i>
Max allowable weight in two rope operation	<b>22 t</b>	<i>48.501 lb</i>



## Casing oscillator with hammer grab

Winches	<b>2 x 240 kN</b>	<i>2x53.955 lb<sub>f</sub></i>
Drilling diameter	<b>1800 mm</b>	<i>71 in</i>
Max allowable weight in two rope operation	<b>22 t</b>	<i>48.501 lb</i>

# HYDRAULIC ROTARY EQUIPMENT



## Drilling performance (SA-25)

### Rotary Drive - Shifting gear type

Torque (nominal)	<b>291 kNm</b>	214627 lb <sub>f</sub> ft
Speed of rotation (max)	<b>40 rpm</b>	40 rpm
Spinoff speed	<b>85 rpm</b>	85 rpm

### Crowd system

Crowd effective force	<b>250 kNm</b>	184387 lb <sub>f</sub> ft
Stroke (kelly system)	<b>2.830 mm</b>	111.5 in

Max drilling depth	<b>81 m</b>	266 ft
Max diameter drilling	<b>2.500* mm</b>	98.5 in

(\*) The max drilling diameter value combined with max drilling depth has to be agreed with Soilmec.



## OPERATIONAL COMFORT

The wide cab offers outstanding comfort and confidence to increase daily production.

To maximize visibility, all glass is fixed directly to the cab eliminating the use of window frames.

Air conditioning system.

Sound insulated cab.

One central high brightness led fixture to light up all the cab.

Two courtesy lights illuminate softly cabin controls during operator works.

## ERGONOMY

The elegant and wide cabin is more than a working station.

Consoles designed to guarantee easy activation of the switches and excellent visibility.

Large springy seat and manipulator console adjustable one each other.

The new electro-proportional manipulators with illuminated (night/day) push-buttons provide fast, safe and productive operations.

The new DMS monitor gives a complete control of machine operations.

A hand throttle allows to have all machine functions on the tip of three fingers only.

## SAFETY

The new Cabin shows the Falling Object Guard System which includes overhead and windshield guards.

Cab instruments are ergonomically located to ensure safety.

Winch controls and new joysticks designed to be compliant with safety standards and, in the meantime, reduce the operator fatigue.

Negative and positive free fall control systems both available.

All the working area is under control with LCD monitor of video-cameras which allows to check four quads at the same time.



# DMS and CONTROL SYSTEM

The Soilmec proprietary **Control System** installed on SC-65 allows control and coordination of machine functions: movements can be performed simultaneously.

The **redundant PLC system** guarantees, in case of failure, no impact on machine availability: operator will be informed, through the touch panel display, about the specific problem.

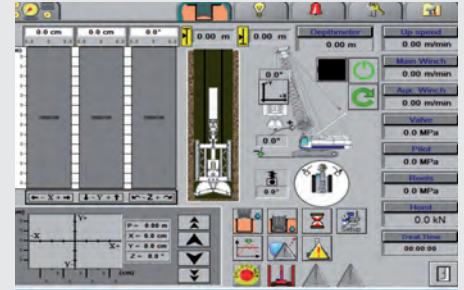
The Control System is auto-diagnosticable and related interfaces are plug&play.

The associated **DMS (Drilling Mate System)** consists of:

- DMS
- DMS PC
- DMS Manager

**DMS standard** provides:

- warning recording
- trouble shooting helping the operator to locate the fault
- efficient maintenance management: DMS records and shows all preventive maintenance operations
- interface with Power Module Control System
- production and operation data storage on CF card or USB flash drive for their processing (with DMS PC)
- connection to modem (GPRS, EDGE or SATELLITE) to send out alarms/data to customer /Soilmec Control Center (DMS Manager) or to an e-mail address



## DMS Manager

Enables full remote control of the machine operations and processing of drilling data sent by modem (wifi/satellite/GPRS)

DMS Manager allows to fully use the DMS potential for a truly comprehensive service to customer/ jobsite.



## Spare part online center (SPOC)

The innovative technical web site of Soilmec S.p.A. has been published with the aim to give Soilmec Dealer Network continuous updated information regarding products and equipments, for a better interaction with the Customers.

Infact, SPOC offers the following online features:

- consultation and downloading of machine documentation, e.g. user and maintenance manuals, electrical/hydraulic drawings, DMS manuals, technical documentation, etc.
- placement and management of purchase orders for spare parts
- real time availability of components of spare parts



\* working with DMS switched off

**CASING  
OSCILLATOR**



**HYDRAULIC  
ROTARY (SA-25)**



**MECHANICAL ROTARY (RT3)**

**CABLE GRAB (GC-11)**



**VIBRATORY DRIVERS (VS-8)**



**HYDRAULIC DIAPHRAGM  
WALL GRAB (GH-12)**



SOILMEC distributes machinery and structures all over the world, supported by SOILMEC subsidiary companies and dealers. The complete Soilmec network list is available on the webpage [www.soilmec.it](http://www.soilmec.it)